

## **South Dakota Content Standards Alignment**

### **High School Geometry Grade Standards, Supporting Skills, and Examples**

**Indicator 1: Use deductive and inductive reasoning to recognize and apply properties of geometric figures.**

**9-12.G.1.1.** (Application) Apply the properties of triangles and quadrilaterals to find unknown parts.

**9-12.G.1.2.** (Application) Identify and apply relationships among triangles.

**Indicator 2: Use properties of geometric figures to solve problems from a variety of perspectives.**

**9-12.G.2.1.** (Analysis) Recognize the relationship between a three-dimensional figure and its two-dimensional representation.

**9-12.G.2.2.** (Application) Reflect across vertical or horizontal lines, and translate two-dimensional figures

**9-12.G.2.3.** (Application) Use proportions to solve problems.

### **High School Measurement Grade Standards, Supporting Skills, and Examples**

**Indicator 1: Apply measurement concepts in practical applications.**

**9-12.M.1.1.** (Comprehension) Choose appropriate unit label, scale, and precision.

**9-12.M.1.2.** (Comprehension) Use suitable units when describing rate of change.

**9-12.M.1.3.** (Application) Use formulas to find perimeter, circumference, and area to solve problems involving common geometric figures.

### **High School Number Sense Grade Standards, Supporting Skills, and Examples**

**Indicator 1: Analyze the structural characteristics of the real number system and its various subsystems. Analyze the concept of value, magnitude, and relative magnitude of real numbers.**

**9-12.N.1.1.** (Comprehension) Identify multiple representations of a real number.

**9-12.N.1.2.** (Comprehension) Apply the concept of place value, magnitude, and relative magnitude of real numbers.

**Indicator 2: Apply operations within the set of real numbers.**

**9-12.N.2.1.** (Comprehension) Add, subtract, multiply, and divide real numbers including integral exponents.

**Indicator 3: Develop conjectures, predictions, or estimations to solve problems and verify or justify the results.**

**9-12.N.3.1.** (Analysis) Use estimation strategies in problem situations to predict results and to check the reasonableness of results.

**9-12.N.3.2.** (Comprehension) Select alternative computational strategies and explain the chosen strategy.

**High School Statistics & Probability**  
**Grade Standards, Supporting Skills, and Examples**

**Indicator 1: Use statistical models to gather, analyze, and display data to draw conclusions.**

**9-12.S.1.1.** (Analysis) Draw conclusions from a set of data.